

Called 12:05 pm

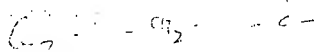
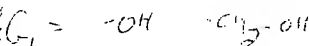
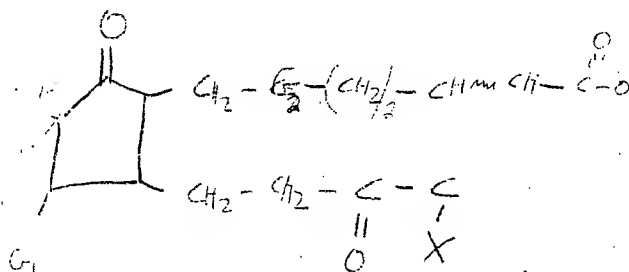
12/10/92

ONLINE SEARCH REQUEST FORM

USER SmithSERIAL NUMBER 15270ART UNIT 1201PHONE 205 935DATE 12-10-92

Please give a detailed statement of requirements. Describe as specifically as possible the subject matter to be searched. Define any terms that may have special meaning. Give examples or relevant citations, authors, or keywords, if known.

You may include a copy of the broadest and or relevant claim(s).



STAFF USE ONLY

COMPLETED 12/10/92
SEARCHER Jan
ONLINE TIME 15 TOTAL TIME 11
(in minutes)
NO. OF DATABASES 4

SYSTEMS

☒ CAS ONLINE Kes (Co) (Coold)
☐ DARC/QUESTEL
☐ DIALOG
☐ SDC
☐ OTHER
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FILE 'REGISTRY' ENTERED AT 11:06:36 ON 10 DEC 92

USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT

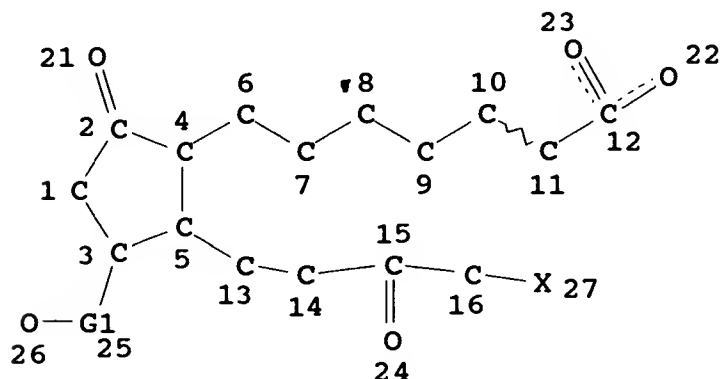
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STRUCTURE FILE UPDATES: 4 DEC 92 HIGHEST RN 144785-96-6

DICTIONARY FILE UPDATES: 10 DEC 92 HIGHEST RN 144785-96-6

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L3 STR



REP G1=(0-1) C

NODE ATTRIBUTES: NONE

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 23

L5 15 SEA FILE=REGISTRY SSS FUL L3

100.0% PROCESSED 79 ITERATIONS

15 ANSWERS

SEARCH TIME: 00.00.05

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(FILE 'REGISTRY' ENTERED AT 10:59:39 ON 10 DEC 92)

L5 15 S L3 FUL

SAVE L5 GERSTL925/A

FILE 'CA' ENTERED AT 11:05:52 ON 10 DEC 92

L6 13 S L5 OR L5/D

FILE 'CAOLD' ENTERED AT 11:06:00 ON 10 DEC 92

L7 0 S L5

FILE 'BIOSIS' ENTERED AT 11:06:14 ON 10 DEC 92

L8 0 S L5

FILE 'REGISTRY' ENTERED AT 11:06:36 ON 10 DEC 92

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=> d ide can 15 1-15

L5 ANSWER 1 OF 15 COPYRIGHT 1992 ACS

RN 139023-32-8 REGISTRY

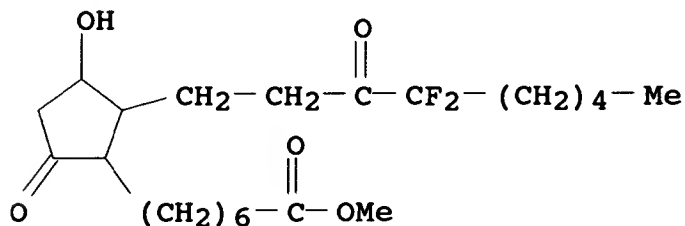
CN Prostan-1-oic acid, 16,16-difluoro-11-hydroxy-20-methyl-9,15-dioxo-, methyl ester, (11.alpha.)- (9CI) (CA INDEX NAME)

MF C22 H36 F2 O5

SR CA

LC CA

DES 4:11A.PROST



1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P CA116(18):181136f

L5 ANSWER 2 OF 15 COPYRIGHT 1992 ACS

RN 138685-09-3 REGISTRY

CN Cyclopentaneheptanoic acid, 2-(4,4-difluoro-3-oxodecyl)-3-hydroxy-.epsilon.,5-dioxo-, 1-methylethyl ester, [1R-(1.alpha.,2.beta.,3.alpha.)]- (9CI) (CA INDEX NAME)

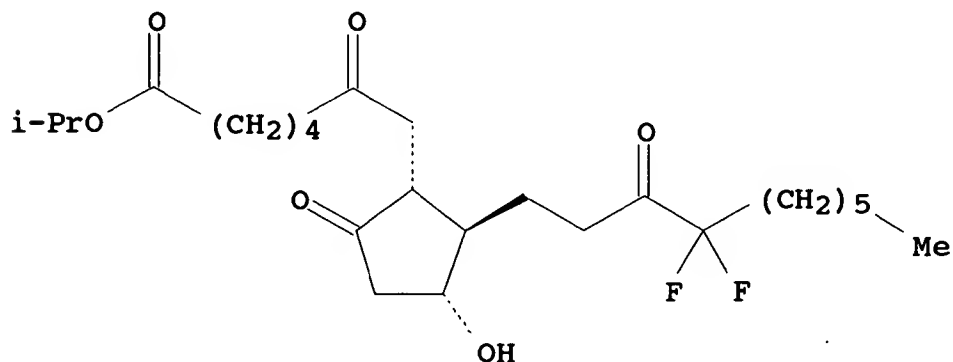
MF C25 H40 F2 O6

SR CA

LC CA

DES *

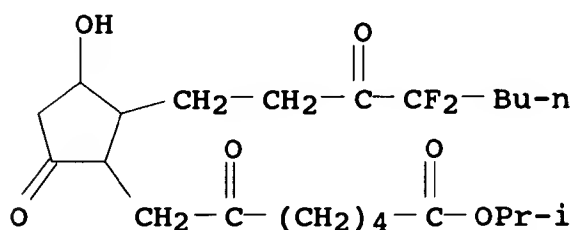
Absolute stereochemistry.



1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P CA117(3):21186q

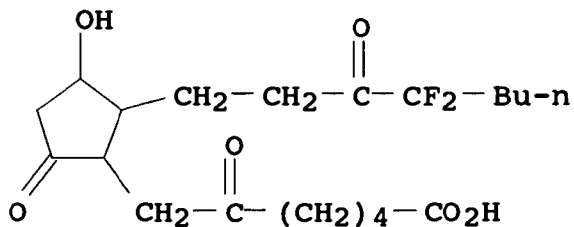
L5 ANSWER 3 OF 15 COPYRIGHT 1992 ACS
RN 138685-08-2 REGISTRY
CN Prostan-1-oic acid, 16,16-difluoro-11-hydroxy-6,9,15-trioxo-,
1-methylethyl ester, (11.alpha.)- (9CI) (CA INDEX NAME)
MF C23 H36 F2 O6
SR CA
LC CA
DES 4:11A.PROST



1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P CA117(3):21186q

L5 ANSWER 4 OF 15 COPYRIGHT 1992 ACS
RN 138685-07-1 REGISTRY
CN Prostan-1-oic acid, 16,16-difluoro-11-hydroxy-6,9,15-trioxo-,
(11.alpha.)- (9CI) (CA INDEX NAME)
MF C20 H30 F2 O6
SR CA
LC CA
DES 4:11A.PROST

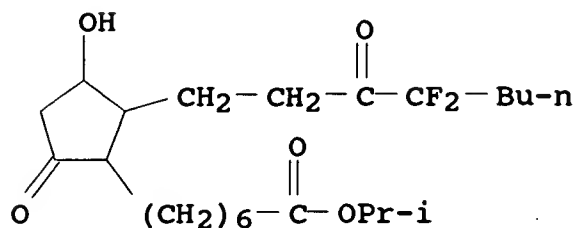


1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P CA117(3):21186q

L5 ANSWER 5 OF 15 COPYRIGHT 1992 ACS
RN 137563-84-9 REGISTRY

CN Prostan-1-oic acid, 16,16-difluoro-11-hydroxy-9,15-dioxo-,
1-methylethyl ester, (11.alpha.)- (9CI) (CA INDEX NAME)
MF C23 H38 F2 O5
SR CA
LC CA
DES 4:11A.PROST



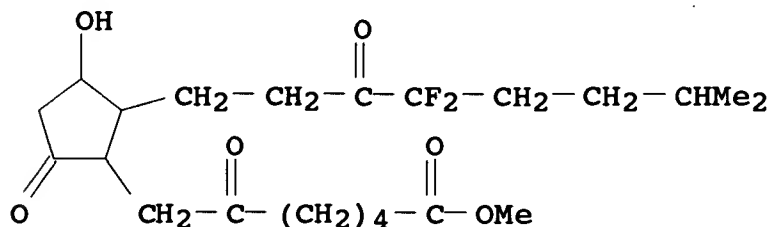
3 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P CA117(11):104249p

REFERENCE 2: P CA116(18):181136f

REFERENCE 3: P CA116(7):59071r

L5 ANSWER 6 OF 15 COPYRIGHT 1992 ACS
RN 137433-40-0 REGISTRY
CN Prostan-1-oic acid, 16,16-difluoro-11-hydroxy-19-methyl-6,9,15-
trioxo-, methyl ester, (11.alpha.)- (9CI) (CA INDEX NAME)
MF C22 H34 F2 O6
SR CA
LC CA
DES 4:11A.PROST



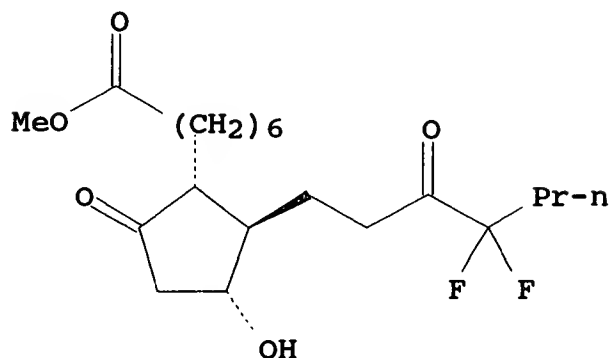
1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P CA115(25):270690d

L5 ANSWER 7 OF 15 COPYRIGHT 1992 ACS
RN 136790-82-4 REGISTRY
CN Cyclopentaneheptanoic acid, 2-(4,4-difluoro-3-oxoheptyl)-3-hydroxy-5-
oxo-, methyl ester, [1R-(1.alpha.,2.beta.,3.alpha.)]- (9CI) (CA
INDEX NAME)

MF C20 H32 F2 O5
SR CA
LC CA
DES *

Absolute stereochemistry.

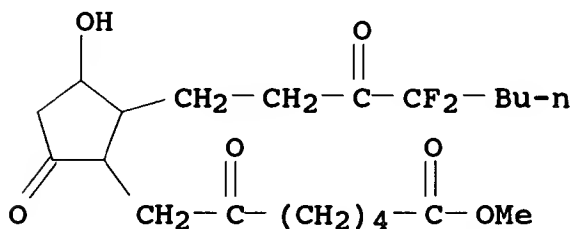


2 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P CA115(19):198532j

REFERENCE 2: P CA115(19):198530g

L5 ANSWER 8 OF 15 COPYRIGHT 1992 ACS
RN 136790-80-2 REGISTRY
CN Prostan-1-oic acid, 16,16-difluoro-11-hydroxy-6,9,15-trioxo-, methyl ester, (11.alpha.)- (9CI) (CA INDEX NAME)
MF C21 H32 F2 O6
SR CA
LC CA
DES 4:11A.PROST



5 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P CA117(3):21186q

REFERENCE 2: P CA116(7):59071r

REFERENCE 3: P CA115(25):270690d

REFERENCE 4: P CA115(19):198532j

REFERENCE 5: P CA115(19):198530g

L5 ANSWER 9 OF 15 COPYRIGHT 1992 ACS

RN 136790-76-6 REGISTRY

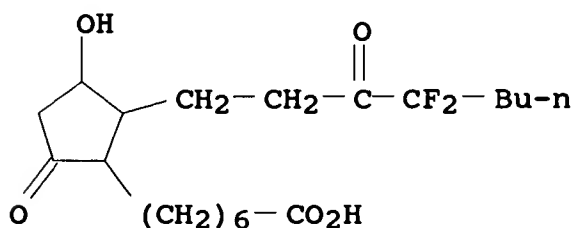
CN Prostan-1-oic acid, 16,16-difluoro-11-hydroxy-9,15-dioxo-,
(11.alpha.)- (9CI) (CA INDEX NAME)

MF C20 H32 F2 O5

SR CA

LC CA, CAPREVIEWS

DES 4:11A.PROST



6 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P CA117(11):104249p

REFERENCE 2: P CA116(18):181136f

REFERENCE 3: P CA116(7):59071r

REFERENCE 4: P CA115(25):270690d

REFERENCE 5: P CA115(19):198532j

REFERENCE 6: P CA115(19):198530g

L5 ANSWER 10 OF 15 COPYRIGHT 1992 ACS

RN 127545-43-1 REGISTRY

CN Cyclopentaneheptanoic acid, 2-(4,4-difluoro-3-oxo-4-phenoxybutyl)-3-
hydroxy-5-oxo-, methyl ester, [1R-(1.alpha.,2.beta.,3.alpha.)]-
(9CI) (CA INDEX NAME)

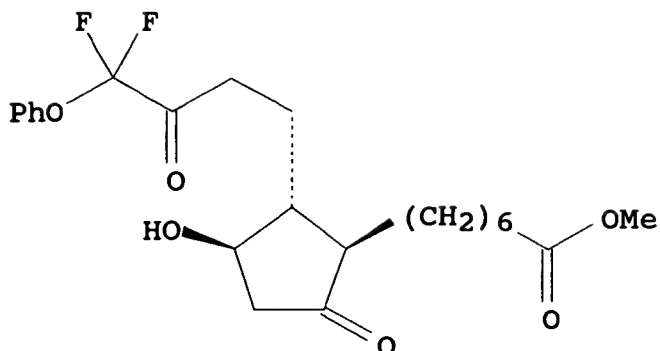
MF C23 H30 F2 O6

SR CA

LC CA

DES *

Absolute stereochemistry.



1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P CA113(3):23515n

L5 ANSWER 11 OF 15 COPYRIGHT 1992 ACS

RN 127545-41-9 REGISTRY

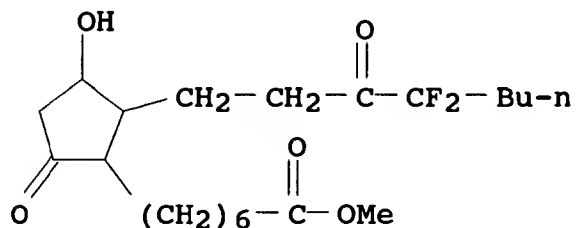
CN Prostan-1-oic acid, 16,16-difluoro-11-hydroxy-9,15-dioxo-, methyl ester, (11.alpha.)- (9CI) (CA INDEX NAME)

MF C21 H34 F2 O5

SR CA

LC CA, CAPREVIEWS

DES 4:11A.PROST



8 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P CA117(11):104249p

REFERENCE 2: P CA117(3):21186q

REFERENCE 3: P CA116(18):181136f

REFERENCE 4: P CA116(7):59071r

REFERENCE 5: P CA115(25):270690d

REFERENCE 6: P CA115(19):198532j

REFERENCE 7: P CA115(19):198530g

REFERENCE 8: P CA113(3):23515n

L5 ANSWER 12 OF 15 COPYRIGHT 1992 ACS

RN 127525-07-9 REGISTRY

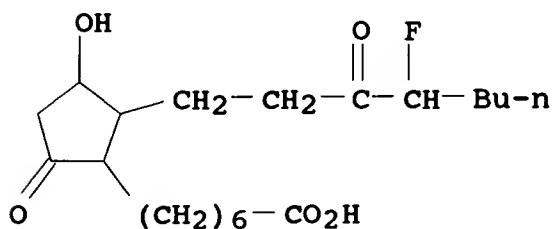
CN Prostan-1-oic acid, 16-fluoro-11-hydroxy-9,15-dioxo-, (11.alpha.)-(9CI) (CA INDEX NAME)

MF C20 H33 F O5

SR CA

LC CA

DES 4:11A.PROST



4 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P CA116(7):59071r

REFERENCE 2: P CA115(25):270690d

REFERENCE 3: P CA113(9):71897k

REFERENCE 4: P CA113(1):1159x

L5 ANSWER 13 OF 15 COPYRIGHT 1992 ACS

RN 118583-22-5 REGISTRY

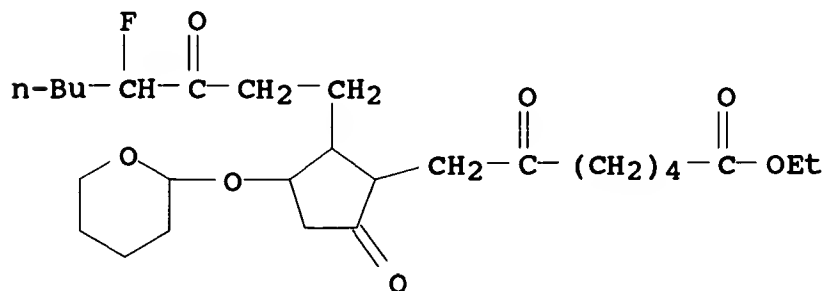
CN Prostan-1-oic acid, 16-fluoro-6,9,15-trioxo-11-[(tetrahydro-2H-pyran-2-yl)oxy]-, ethyl ester, (11.alpha.)-(9CI) (CA INDEX NAME)

MF C27 H43 F O7

SR CA

LC CA

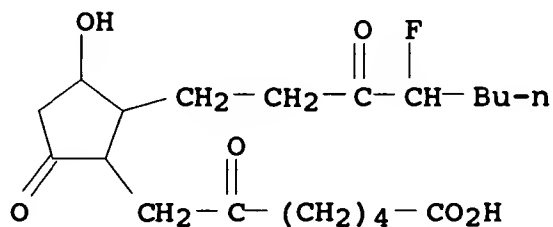
DES 4:11A.PROST



1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P CA110(19):172990d

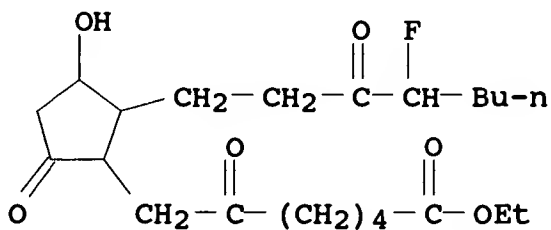
L5 ANSWER 14 OF 15 COPYRIGHT 1992 ACS
RN 118565-87-0 REGISTRY
CN Prostan-1-oic acid, 16-fluoro-11-hydroxy-6,9,15-trioxo-,
(11.alpha.)- (9CI) (CA INDEX NAME)
MF C20 H31 F O6
SR CA
LC CA
DES 4:11A.PROST



1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P CA110(19):172990d

L5 ANSWER 15 OF 15 COPYRIGHT 1992 ACS
RN 118565-46-1 REGISTRY
CN Prostan-1-oic acid, 16-fluoro-11-hydroxy-6,9,15-trioxo-, ethyl
ester, (11.alpha.)- (9CI) (CA INDEX NAME)
MF C22 H35 F O6
SR CA
LC CA
DES 4:11A.PROST



6 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P CA115(25):270690d

REFERENCE 2: P CA113(13):109325n

REFERENCE 3: P CA113(9):71897k

REFERENCE 4: P CA113(1):1159x
REFERENCE 5: P CA110(23):206626g
REFERENCE 6: P CA110(19):172990d

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FILE COVERS 1967 - 28 Nov 92 (921128/ED) VOL 117 ISS 22.

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=> d bib abs hit 16 1-13

L6 ANSWER 1 OF 13 COPYRIGHT 1992 ACS

AN CA117(11):104249p

TI Treatment of inflammatory diseases with 15-keto-prostaglandin compounds, and preparation of and pharmaceutical compositions containing these compounds

AU Ueno, Ryuji

CS Kabushiki Kaisha Ueno Seiyaku Oyo Kenkyusho

LO Japan

SO Eur. Pat. Appl., 54 pp.

PI EP 467564 A2 22 Jan 1992

DS R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE

AI EP 91-306069 3 Jul 1991

PRAI JP 90-184963 10 Jul 1990

IC ICM A61K031-557

SC 1-7 (Pharmacology)

SX 26, 63

DT P

CO EPXXDW

PY 1992

LA Eng

AN CA117(11):104249p

AB 15-Ketoprostaglandin derivs. are prepd. for the manuf. of a medicament for treatment of inflammatory diseases. Thus, 13,14-dihydro-15-keto-20-ethyl-PGF2.alpha. iso-Pr ester (I) had activity against exptl. conjunctivitis in rats. An eyedrop formulation of I is given, as are injection, capsule, etc. formulations of other ketoprostaglandin derivs. Prepn. of a variety of ketoprostaglandins, e.g. 16,16-difluoro-13,14-dihydro-15-keto-PGE1 Me ester, is described.

IT 136249-12-2 136790-88-0 136790-89-1 137492-12-7 137563-80-5

137563-81-6 137563-84-9 138626-66-1 140407-81-4
(NMR spectral data for, antiinflammatory prostaglandin synthesis
in relation to)

IT 127545-41-9P 136790-76-6P 136790-84-6P
137563-66-7P 138684-87-4P 138684-93-2P 138685-02-6P
140407-72-3P 140407-76-7P 140407-77-8P 140407-79-0P
140407-80-3P
(prepn. of, for antiinflammatory)

L6 ANSWER 2 OF 13 COPYRIGHT 1992 ACS
AN CA117(3):21186q
TI Treatment of cataract with 15-keto-prostaglandin compounds
AU Ueno, Ryuji
CS Ueno Fine Chemical Industries, Ltd.
LO Japan
SO Eur. Pat. Appl., 43 pp.
PI EP 453127 A2 23 Oct 1991
DS R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE
AI EP 91-302925 3 Apr 1991
PRAI JP 90-90895 4 Apr 1990
JP 90-221646 22 Aug 1990
JP 91-29310 29 Jan 1991

IC ICM A61K031-557
ICS A61K009-06
SC 2-9 (Mammalian Hormones)
SX 26, 63
DT P
CO EPXXDW
PY 1991
LA Eng
OS MARPAT 117:21186
AN CA117(3):21186q
AB 15-Ketoprostaglandins are prepd. for cataract treatment. Twelve
prepn. examples are given, as are injectable, powder, capsule, and
ophthalmic soln. formulations. The prostaglandin derivs. of the
invention inhibited exptl. cataract in rats.

IT 118583-21-4 118696-49-4 124548-58-9 137563-78-1 138626-66-1
138685-08-2 138685-09-3
(cataract treatment with)

IT 138685-07-1
(injection soln. pharmaceutical of, for cataract treatment)

IT 136790-80-2
(powder oral pharmaceutical of, for cataract treatment)

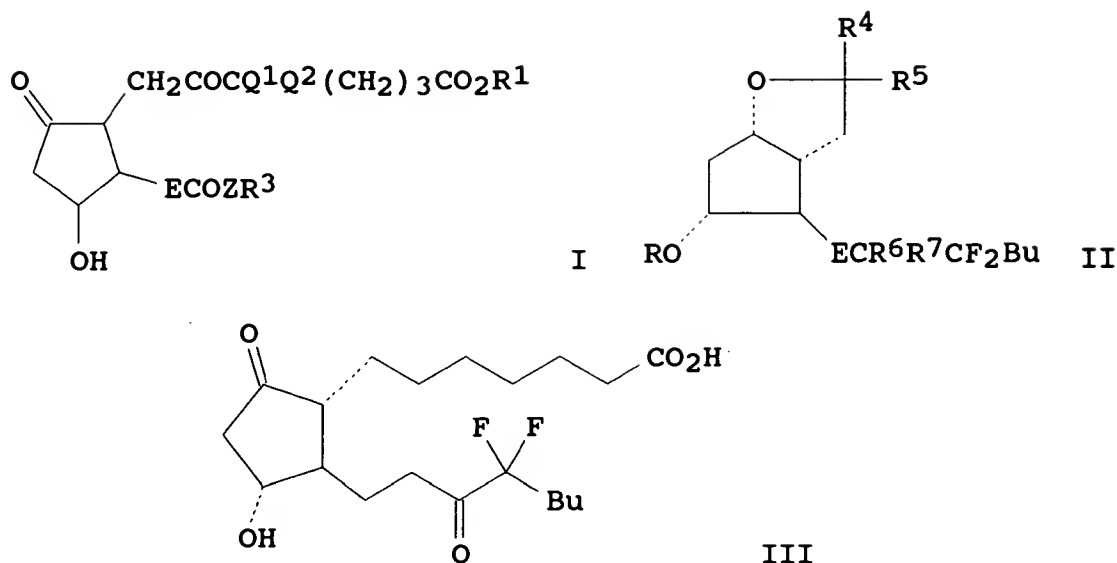
IT 118565-93-8P 127545-41-9P 138684-84-1P 138684-87-4P
138684-93-2P 138684-94-3P 138684-98-7P 138685-02-6P
138685-06-0P
(prepn. of, for cataract treatment)

L6 ANSWER 3 OF 13 COPYRIGHT 1992 ACS
AN CA116(18):181136f
TI Preparation of 15-ketoprostaglandin compounds for pharmaceuticals
for pancreatic disease treatment
AU Ueno, Ryuji

CS Hayashibara Biochemical Laboratories, Inc.
 LO Japan
 SO Eur. Pat. Appl., 35 pp.
 PI EP 455448 A2 6 Nov 1991
 DS R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE
 AI EP 91-303856 29 Apr 1991
 PRAI JP 90-116139 1 May 1990
 IC ICM A61K031-557
 SC 63-6 (Pharmaceuticals)
 SX 1, 26
 DT P
 CO EPXXDW
 PY 1991
 LA Eng
 AN CA116(18):181136f
 AB 15-Ketoprostaglandin derivs. are prepd. for manuf. of medicaments for treatment of pancreatic disease. Prepn. of a variety of the derivs., e.g. 13,14-dihydro-15-keto-16,16-difluoro PGE Me ester, is given. Injection, oral powder, and capsule formulations are included. 13,14-Dihydro-15-keto-16,16-difluoro PGE2 had pancreatic function-improving activity in animals with exptl. acute pancreatitis.
 IT 120373-37-7 136790-83-5 139023-32-8
 (capsule pharmaceutical of, for pancreatic disease treatment)
 IT 127545-41-9P 136790-76-6P 136790-84-6P
 137563-66-7P
 (prepn. of, for pharmaceutical, for pancreatic disease treatment)
 IT 136249-12-2P 136790-89-1P 137492-12-7P 137563-80-5P
 137563-81-6P 137563-84-9P 138626-66-1P 139023-34-0P
 (prepn. of, pharmacetical compn. contg., for pancreatic disease treatment)

 L6 ANSWER 4 OF 13 COPYRIGHT 1992 ACS
 AN CA116(7):59071r
 TI Preparation and formulation of 15-ketoprostaglandins as cerebrovascular agents
 AU Ueno, Ryuji; Osama, Hiroyoshi; Oda, Tomio
 CS Kabushiki Kaisha Ueno Seiyaku Oyo Kenkyusho
 LO Japan
 SO Eur. Pat. Appl., 51 pp.
 PI EP 435443 A2 3 Jul 1991
 DS R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE
 AI EP 90-312642 21 Nov 1990
 PRAI JP 89-303839 22 Nov 1989
 JP 90-7611 17 Jan 1990
 JP 90-85439 30 Mar 1990
 IC ICM A61K031-557
 SC 26-3 (Biomolecules and Their Synthetic Analogs)
 SX 1, 63
 DT P
 CO EPXXDW
 PY 1991
 LA Eng

OS MARPAT 116:59071
 AN CA116(7):59071r
 GI



AB Title compds., e.g., I [E = CH₂CH₂, CH:CH; Q₁ = halo; Q₂ = H, halo; R₁ = H, alkyl; R₃ = (halo)alkyl, (alkyl)cycloalkyl, (un)substituted aryl, aryloxy; Z = bond, alkylene] were prep'd. Thus, (1S,5R,6R,7R)-6-hydroxymethyl-7-tetrahydropyranyloxy-2-oxabicyclo[3.3.0]octan-3-one was oxidized and the aldehyde product condensed with (MeO)₂P(O)CH₂COCF₂Bu to give octenylbicyclooctanone II [E = (E)-CH:CH, R = tetrahydropyranyl, R₄R₅ = R₇R₇ = O] which was converted in 3 steps to II (E = CH₂CH₂, R₄ = R₆ = OH, R₅ = R₇ = H). The latter was condensed with Ph₃P+(CH₂)₄CO₂H Br⁻ and the esterified product oxidized with Collins reagent to give, after deprotection and hydrogenation, title comp'd. III which gave a 50% increase in blood, flow in rat hippocampus tissue 20 min after i.v. administration of 1.0 mg/kg.

IT 118583-21-4 120373-17-3 120373-24-2 122730-78-3
 127525-07-9 127545-41-9 129763-67-3
 131840-73-8 136249-12-2 136790-76-6 136790-80-2
 136790-84-6 136790-88-0 137563-66-7 137563-78-1 137563-79-2
 137563-80-5 137563-81-6 137563-82-7 137563-83-8
 137563-84-9 137563-85-0 138626-66-1
 (cerebrovascular activity of)
 IT 127545-41-9P 136790-76-6P 137563-66-7P
 137563-77-0P
 (prepn. of, as cerebrovascular agent)

AN CA115(25):270690d
 TI Treatment of hepatobiliary disease with 15-ketoprostaglandin derivatives
 AU Ueno, Ryuji; Osama, Hiroyoshi
 CS Kabushiki Kaisha Ueno Seiyaku Oyo Kenkyusho
 LO Japan
 SO Eur. Pat. Appl., 25 pp.
 PI EP 424156 A2 24 Apr 1991
 DS R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE
 AI EP 90-311457 18 Oct 1990
 PRAI JP 89-274606 20 Oct 1989
 IC ICM A61K031-557
 SC 1-9 (Pharmacology)
 SX 26, 63
 DT P
 CO EPXXDW
 PY 1991
 LA Eng
 AN CA115(25):270690d
 AB 15-Ketoprostaglandin derivs. are used to manuf. a medicament for treatment of hepatobiliary disease. Prepn. in 8 steps of Me 16,16-difluoro-13,14-dihydro-15-keto-PGE is described. Oral and injection formulations of the prostaglandin derivs. of the invention are given, as are animal test data.
 IT 12619-70-4D, Cyclodextrin, di-Me ether, adduct with PGE derivs. 118565-25-6D, adduct with di-Me cyclodextrin 118565-46-1 118565-86-9 120373-24-2 122730-87-4 127525-07-9 136790-89-1 137492-12-7
 (for hepatobiliary disease treatment)
 IT 118565-93-8 120373-37-7 136790-76-6 136790-80-2 137433-40-0
 (hepatobiliary disease pharmaceutical of)
 IT 127545-41-9P
 (prepn. of, for hepatobiliary disease treatment and pharmaceutical)

 L6 ANSWER 6 OF 13 COPYRIGHT 1992 ACS
 AN CA115(19):198532j
 TI Treatment of pulmonary dysfunction with 15-keto-prostaglandin compounds and their preparation and pharmaceutical compositions containing them
 AU Ueno, Ryuji; Osama, Hiroyoshi
 CS Kabushiki Kaisha Ueno Seiyaku Oyo Kenkyusho
 LO Japan
 SO Eur. Pat. Appl., 23 pp.
 PI EP 430552 A2 5 Jun 1991
 DS R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE
 AI EP 90-312641 21 Nov 1990
 PRAI JP 89-303841 22 Nov 1989
 IC ICM A61K031-557
 SC 1-9 (Pharmacology)
 SX 26, 63
 DT P

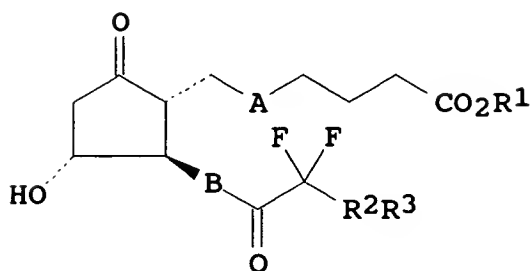
CO EPXXDW
 PY 1991
 LA Eng
 AN CA115(19):198532j
 AB 15-Ketoprostaglandins are used for the manuf. of a medicament for treatment of a pulmonary dysfunction. Prepn. of 16,16-difluoro-13,14-dihydro-15-keto PGE1 (I) and of I Me ester are given, as is an injection formulation contg. I. Effectiveness of the ketoprostaglandins of the invention was detd. in animal testing. Prepn. and formulations for ketoprostaglandins other than I are also included.
 IT 127545-41-9P 136790-76-6P
 (prepn. of, for pulmonary pharmaceutical)
 IT 118565-26-7 118565-93-8 136790-80-2 136790-81-3
 136790-82-4 136790-83-5
 (pulmonary pharmaceutical of)
 L6 ANSWER 7 OF 13 COPYRIGHT 1992 ACS
 AN CA115(19):198530g
 TI Treatment of cardiac dysfunction with 15-keto-prostaglandin compounds and their preparation and pharmaceutical compositions containing them
 AU Ueno, Ryuji; Osama, Hiroyoshi
 CS Kabushiki Kaisha Ueno Seiyaku Oyo Kenkyusho
 LO Japan
 SO Eur. Pat. Appl., 21 pp.
 PI EP 430551 A2 5 Jun 1991
 DS R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE
 AI EP 90-312640 21 Nov 1990
 PRAI JP 89-303840 22 Nov 1989
 IC ICM A61K031-557
 SC 1-8 (Pharmacology)
 SX 26, 63
 DT P
 CO EPXXDW
 PY 1991
 LA Eng
 AN CA115(19):198530g
 AB 15-Ketoprostaglandins are used for the manuf. of a medicament for treatment of cardiac dysfunction. Thus, 13,14-dihydro-15-keto-16,16-difluoro PGE1 (I) (prepn. given) increased contraction of guinea pig heart atria, compared to controls receiving vehicle alone. An injection formulation contg. I is given. Other ketoprostaglandins are prepd. and tested and formulations given.
 IT 118565-26-7 118565-93-8 136790-80-2 136790-81-3
 136790-82-4 136790-83-5
 (cardiac pharmaceutical of)
 IT 127545-41-9P 136790-76-6P
 (prepn. of, for cardiac pharmaceutical)
 L6 ANSWER 8 OF 13 COPYRIGHT 1992 ACS
 AN CA113(13):109325n
 TI 15-Keto-prostaglandin E ester hypersphyxia causing composition

AU Ueno, Ryuzo; Ueno, Ryuji; Oda, Tomio
 CS Kabushiki Kaisha Ueno Seiyaku Oyo Kenkyusho
 LO Japan
 SO Eur. Pat. Appl., 26 pp.
 PI EP 343904 A1 29 Nov 1989
 DS R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE
 AI EP 89-305163 22 May 1989
 PRAI JP 88-125303 23 May 1988
 JP 88-182281 20 Jul 1988
 IC ICM A61K031-557
 SC 1-8 (Pharmacology)
 SX 2, 63
 DT P
 CO EPXXDW
 PY 1989
 LA Eng
 OS MARPAT 113:109325
 AN CA113(13):109325n
 AB 15-Keto-PGEs ester compns. cause hypersphyxia, effective in
 recovering blood pressure and heart rate in, e.g., hemorrhage shock
 or hyperventilation. I.v. injection in rats of a no. of 14-keto-PGE
 esters exhibit a blood pressure increasing effect instead of a
 decreasing effect shown with other prostaglandins. The esters also
 exhibit pos. chronotropic effects. Examples of pharmaceuticals
 contg. the compds. are given.
 IT 363-23-5, 13,14-Dihydro-15-keto-PGE2 5094-14-4,
 13,14-Dihydro-15-keto-PGE1 93036-49-8, 13,14-Dihydro-6,15-diketo-
 PGE1 118565-22-3 118565-24-5 118565-25-6, 13,14-Dihydro-6,15-
 diketo-19-methyl-PGE1 ethyl ester 118565-26-7,
 13,14-Dihydro-6,15-diketo-19-methyl-PGE1 methyl ester 118565-27-8
 118565-28-9 118565-31-4, 13,14-Dihydro-15-keto-PGE2 ethyl ester
 118565-33-6, 13,14-Dihydro-15-keto-PGE2 methyl ester 118565-34-7,
 13,14-Dihydro-15-keto-PGE2 n-propyl ester 118565-37-0
 118565-38-1 118565-42-7 118565-43-8 118565-46-1
 118565-58-5 118565-63-2, (+-.) 13,14-Dihydro-6,15-diketo-PGE1
 ethyl ester 118565-64-3, 13,14-Dihydro-6,15-diketo-PGE1 methyl
 ester 118565-66-5 118565-69-8 118565-77-8,
 13,14-Dihydro-6,15-diketo-PGE1 ethyl ester 118565-86-9
 118583-21-4 118583-25-8 118583-32-7 118583-41-8 118583-48-5
 118583-49-6 118628-13-0 118696-35-8 118696-39-2,
 13,14-Dihydro-6,15-diketo-PGE1 n-butyl ester 118696-42-7,
 13,14-Dihydro-15-keto-PGE2 n-butyl ester 118696-46-1,
 13,14-Dihydro-15-keto-PGE2 benzyl ester 118696-48-3 118696-49-4
 118696-50-7 118696-51-8 118696-52-9 118696-59-6 118696-60-9,
 13,14-Dihydro-15-keto-20-ethyl-PGE2 ethyl ester 118696-61-0,
 13,14-Dihydro-15-keto-20-ethyl-PGE1 methyl ester 118696-62-1
 118696-63-2 118696-70-1 118696-72-3, 13,14-Dihydro-6,15-diketo-
 16,16-dimethyl-PGE1 ethyl ester 118720-65-3 120414-35-9,
 13,14-Dihydro-15-keto-PGE2 hydroxyethyl ester 120414-36-0
 120414-37-1 120414-38-2 120414-45-1 120445-09-2 120445-10-5,
 13,14-Dihydro-15-keto-.DELTA.2-PGE2-methyl ester 124600-33-5
 128678-58-0 129041-43-6
 (hypersphyxia activity of, for pharmaceuticals)

L6 ANSWER 9 OF 13 COPYRIGHT 1992 ACS
 AN CA113(9):71897k
 TI 15-Ketoprostaglandin E derivatives as bronchodilators
 AU Ueno, Ryuzo; Ueno, Takashi; Oda, Tomio
 CS Kabushiki Kaisha Ueno Seiyaku Oyo Kenkyusho
 LO Japan
 SO Jpn. Kokai Tokkyo Koho, 23 pp.
 PI JP 01287028 A2 17 Nov 1989 Heisei
 AI JP 88-115409 11 May 1988
 IC ICM A61K031-557
 SC 2-4 (Mammalian Hormones)
 DT P
 CO JKXXAF
 PY 1989
 LA Japan
 AN CA113(9):71897k
 AB 15-Ketoprostaglandin E derivs. are bronchodilators. The
 bronchodilating activities (IC20 and IC50 values) of 64 derivs. of
 15-ketoprostaglandin E were studied in vitro using bronchial smooth
 muscle isolated from the guinea pig. The IC20 and IC50 of
 13,14-dihydro-15-keto-PGE were 8 .times. 10-7 and 7 .times. 10-6M,
 resp.
 IT 363-23-5 363-24-6 745-65-3 5094-14-4 26441-05-4
 118565-22-3 118565-24-5 118565-25-6 118565-26-7 118565-27-8
 118565-28-9 118565-31-4 118565-33-6 118565-34-7 118565-35-8
 118565-37-0 118565-38-1 118565-42-7 118565-43-8
 118565-46-1 118565-58-5 118565-64-3 118565-66-5
 118565-69-8 118565-77-8 118565-86-9 118565-94-9 118565-95-0
 118583-32-7 118583-40-7 118583-49-6 118628-13-0 118696-35-8
 118696-36-9 118696-39-2 118696-42-7 118696-46-1 118696-48-3
 118696-49-4 118696-50-7 118696-51-8 118696-52-9 118696-58-5
 118696-59-6 118696-70-1 118696-72-3 118696-73-4 120414-35-9
 120414-37-1 120414-38-2 120414-45-1 120445-09-2 120445-10-5
 124600-33-5 127525-07-9 128678-52-4 128678-53-5
 128678-54-6 128678-55-7 128678-57-9 128678-58-0 128678-59-1
 128695-96-5
 (bronchodilator activity of)

L6 ANSWER 10 OF 13 COPYRIGHT 1992 ACS
 AN CA113(3):23515n
 TI 16,16-Difluoro-15-oxo-15-deoxyprostaglandin E derivatives as ulcer
 inhibitors
 AU Wakatsuka, Hirohisa; Okegawa, Tadao
 CS Ono Pharmaceutical Co., Ltd.
 LO Japan
 SO Jpn. Kokai Tokkyo Koho, 9 pp.
 PI JP 02032055 A2 1 Feb 1990 Heisei
 AI JP 88-178015 19 Jul 1988
 IC ICM C07C405-00
 ICS A61K031-557
 SC 26-3 (Biomolecules and Their Synthetic Analogs)
 SX 1

DT P
 CO JKXXAF
 PY 1990
 LA Japan
 OS MARPAT 113:23515
 AN CA113(3):23515n
 GI



I

AB The title derivs. I [R1 = H, C1-8 alkyl; R2 = direct bond, C1-4 alkylene; R3 = C1-8 alkyl, (C1-8 alkyl) C4-7 cycloalkyl, Ph or OPh which may have 1 Cl, CF3, or C1-4 alkyl; A = CH2CH2, cis-CH:CH; B = CH2CH2, trans-CH:CH; B = CH2CH2 when A = cis-CH:CH], their cyclodextrin inclusion compds., or nontoxic salts of I (R1 = H), useful as strong ulcer inhibitors with weak antihypertensive, diuretic, blood platelet aggregation-inhibiting, bronchodilatory activities, etc. common to prostaglandins, are prepd. A mixt. of 157 mg 11-(tetrahydropyran-2-yl) ether of I (R1 = Me, R2R3 = Bu, A = CH2CH2, B = trans-CH:CH), AcOH, H2O, and THF was stirred at 45.degree. for 2 h to give 113 mg I (R1 = Me, R2R3 = Bu, A = CH2CH2, B = trans-CH:CH), 38 mg of which in AcOEt was treated with Pd/C under H at room temp. for 20 min to give 34 mg I (R1 = Me, R2R3 = Bu, A = B = CH2CH2) (II). II inhibited pentagastrin-induced increase of gastric secretion in rats at ED50 <30 .mu.g/kg/h.

IT 127545-40-8P 127545-41-9P 127545-42-0P

127545-43-1P

(prepn. of, as ulcer inhibitor)

L6 ANSWER 11 OF 13 COPYRIGHT 1992 ACS
 AN CA113(1):1159x
 TI Use of 15-ketoprostaglandin E or F compounds for uterine contraction
 AU Ryuzo, Ueno; Ryuji, Ueno; Tomio, Oda
 CS Kabushiki Kaisha Ueno Seiyaku Oyo Kenkyusho
 LO Japan
 SO Eur. Pat. Appl., 33 pp.
 PI EP 342003 A1 15 Nov 1989
 DS R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE
 AI EP 89-304724 10 May 1989
 PRAI JP 88-115408 11 May 1988

JP 88-137666 2 Jun 1988

IC ICM A61K031-557

SC 2-3 (Mammalian Hormones)

SX 26, 63

DT P

CO EPXXDW

PY 1989

LA Eng

OS MARPAT 113:1159

AN CA113(1):1159x

AB Prostanoid acid derivs. for manuf. of medicaments to induce uterine contraction and interrupt pregnancy are selected from 15-ketoprostaglandin E compds. (15-keto PGE) and 15-ketoprostaglandin F compds. (15-keto PGF) with the proviso that when the only group, which is unsubstituted n-pentyl, is attached to C15 of the prostanoid acid nucleus and the bond between C5 and C6 is a double bond, then the bond between C13 and C14 is a single bond. 13,14-Dihydro-15-keto-16-desbutyl-16-m-trifluoromethylphenoxy-PGE2 was synthesized from trifluorocresol in 17 steps. 13,14-Dihydro-15-keto-PGF2.alpha. Me ester at 3 .times. 10-5 M induced uterine contractions 98% that of oxytocin (1 mU). Formulations of 13,14-dihydro-15-keto-16-desbutyl-16-m-trifluoromethylphenoxy-PGF2.alpha. are given.

IT 363-23-5 363-24-6, PGE2 551-11-1, PGF2.alpha. 27376-76-7
31753-17-0, PGE2 methyl ester 118565-25-6 118565-26-7
118565-27-8 118565-28-9 118565-31-4 118565-33-6 118565-37-0
118565-38-1 118565-42-7 118565-43-8 **118565-46-1**
118565-58-5 118565-63-2 118565-66-5 118565-77-8 118565-86-9
118565-93-8 118565-94-9 118565-95-0 118583-21-4 118583-32-7
118583-40-7 118583-41-8 118583-49-6 118594-28-8 118628-13-0
118696-35-8 118696-39-2 118696-49-4 118696-60-9 118696-62-1
118696-63-2 118696-70-1 118696-72-3 118720-65-3 120373-16-2
120373-17-3 120373-19-5 120373-20-8 120373-21-9 120373-23-1
120373-24-2 120373-25-3 120373-26-4 120373-27-5 120373-28-6
120373-29-7 120373-30-0 120373-31-1 120373-32-2 120373-33-3
120373-34-4 120373-35-5 120373-36-6 120373-37-7 120373-38-8
120373-40-2 120414-38-2 120442-68-4 122730-78-3 122730-84-1
122730-87-4 127525-06-8 **127525-07-9** 127525-08-0
127525-09-1
(uterine contraction by)

L6 ANSWER 12 OF 13 COPYRIGHT 1992 ACS

AN CA110(23):206626g

TI Fervescence composition comprising 15-ketoprostaglandins E

AU Ueno, Ryuzo; Ueno, Ryuji; Oda, Tomio

CS Kabushiki Kaisha Ueno Seiyaku Oyo Kenkyujo

LO Japan

SO Eur. Pat. Appl., 30 pp.

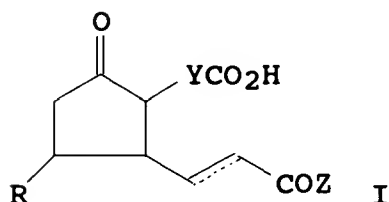
PI EP 292177 A1 23 Nov 1988

DS R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE

AI EP 88-304206 10 May 1988

PRAI JP 87-119367 15 May 1987
JP 87-235962 17 Sep 1987

IC ICM A61K031-557
 SC 2-9 (Mammalian Hormones)
 SX 1
 DT P
 CO EPXXDW
 PY 1988
 LA Eng
 OS MARPAT 110:206626
 AN CA110(23):206626g
 GI



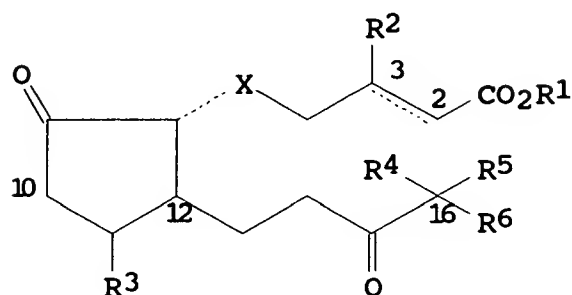
AB The 15-keto prostaglandins E [I; R = OH, hydroxyalkyl, alkyl; Y = (un)substituted hydrocarbon moiety; Z = hydrocarbon moiety] and I salts are ferverescence agents. I.p. administration of 400 ng 13,14-dihydro-15-keto-PGE2 increased by 0.7.degree. the body temp. of the rat.

IT	363-23-5	363-24-6	745-65-3	5094-14-4	31753-17-0	93036-49-8
	118565-22-3	118565-24-5	118565-25-6	118565-26-7	118565-27-8	
	118565-28-9	118565-31-4	118565-33-6	118565-34-7	118565-37-0	
	118565-38-1	118565-42-7	118565-43-8	118565-46-1		
	118565-58-5	118565-63-2	118565-64-3	118565-66-5	118565-69-8	
	118565-77-8	118565-86-9	118565-95-0	118583-32-7	118583-40-7	
	118583-41-8	118583-48-5	118583-49-6	118628-13-0	118696-35-8	
	118696-36-9	118696-39-2	118696-42-7	118696-46-1	118696-48-3	
	118696-49-4	118696-50-7	118696-51-8	118696-52-9	118696-59-6	
	118696-60-9	118696-61-0	118696-63-2	118696-70-1	118696-72-3	
	118720-65-3	120414-35-9	120414-36-0	120414-37-1	120414-38-2	
	120414-45-1	120445-09-2	120445-10-5			

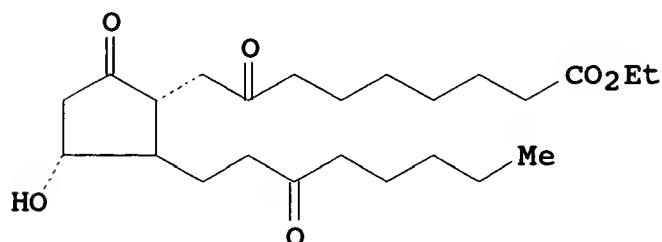
(as ferverescence agent)

L6 ANSWER 13 OF 13 COPYRIGHT 1992 ACS
 AN CA110(19):172990d
 TI Prostaglandins E and antiulcer containing compositions containing same
 AU Ueno, Ryuzo; Ueno, Ryuji; Kato, Ichie; Oda, Tomio
 CS Ueno Fine Chemical Industries, Ltd.
 LO Japan
 SO Eur. Pat. Appl., 136 pp.
 PI EP 284180 A1 28 Sep 1988
 DS R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE
 AI EP 88-300709 28 Jan 1988
 PRAI JP 87-18820 28 Jan 1987
 JP 87-65352 18 Mar 1987

IC ICM C07C177-00
 ICS A61K031-557
 SC 26-3 (Biomolecules and Their Synthetic Analogs)
 SX 1
 DT P
 CO EPXXDW
 PY 1988
 LA Eng
 OS MARPAT 110:172990
 AN CA110(19):172990d
 GI



I



II

AB Prostaglandins E [I; X = (CH₂)₃, CH₂COCH₂, CH₂CH:CH₂, CH₂C.tplbond.C; R₁ = H, physiol. acceptable cation or protective group, alkyl, PhCH₂, hydroxyalkyl; R₂ = H, Me; R₃ = OH, Me, CH₂OH; R₄, R₅ = H, Me, OH, halo; R₆ = alkoxy (un)substituted alkyl, alkenyl; C₂-C₃ may be double bond; if R₁, R₂, R₄, R₅ = H, R₆ = Bu, R₃ = OH], useful as antiulcer agents without uterine or intestinal constriction or vasodilation, were prepd. PGE₁ deriv. II was prepd. in 13 steps from (-)-Corey lactone, Collins oxidn. of which gave an aldehyde which reacted with NaH-treated di-Me (2-oxoheptyl)phosphonate. 13,14-Dihydro-15-oxo-PGE₂ Et ester had an ulcer inhibiting ED₅₀ of 1.5 mg/kg in rats, with no intestinal or uterus constricting effects or tracheal relaxation effect; PGE₂ with ulcer inhibiting ED₅₀ of 0.5 mg/kg showed intestinal and uterus constriction as well as tracheal relaxation.

IT 118583-18-9P 118583-19-0P 118583-20-3P 118583-22-5P
 (prepn. and reaction of, in prepn. of antiulcer prostaglandins)
 IT 118565-22-3P 118565-24-5P 118565-25-6P 118565-26-7P

118565-27-8P	118565-28-9P	118565-31-4P	118565-33-6P
118565-34-7P	118565-35-8P	118565-37-0P	118565-38-1P
118565-42-7P	118565-43-8P	118565-46-1P	118565-58-5P
118565-63-2P	118565-64-3P	118565-66-5P	118565-69-8P
118565-77-8P	118565-86-9P	118583-14-5P	118583-21-4P
118583-25-8P	118583-26-9P	118583-32-7P	118583-34-9P
118583-40-7P	118583-41-8P	118583-48-5P	118583-49-6P
118607-61-7P	118628-13-0P	118628-14-1P	118628-91-4P
118696-35-8P	118696-36-9P	118696-39-2P	118696-42-7P
118696-44-9P	118696-46-1P	118696-48-3P	118696-49-4P
118696-50-7P	118696-51-8P	118696-52-9P	118696-54-1P
118696-57-4P	118696-58-5P	118696-59-6P	118696-60-9P
118696-61-0P	118696-62-1P	118696-63-2P	118696-70-1P
118696-72-3P	118696-73-4P	118720-65-3P	

(prepn. of, as antiulcer agent)

IT	118565-84-7P	118565-85-8P	118565-86-9P	118565-87-0P
	118565-88-1P	118565-89-2P	118565-90-5P	118565-91-6P
	118565-92-7P	118565-93-8P	118565-94-9P	118565-95-0P
	118565-96-1P	118565-97-2P		

(prepn. of, as ulcer inhibitor)

=> d his 19-

(FILE 'REGISTRY' ENTERED AT 11:06:36 ON 10 DEC 92)

FILE 'CA' ENTERED AT 11:07:52 ON 10 DEC 92

FILE 'CAPREVIEWS' ENTERED AT 11:10:00 ON 10 DEC 92

L9 1 S L5

=> d all

L9 ANSWER 1 OF 1 COPYRIGHT 1992 ACS

AN 92:441791 CAPreviews

TI 15-ketoprostaglandins or memory improver

AU Ueno, Takashi; Nagama, Hiroyoshi

CS Ueno Seiyaku Oyo Kenkyusho K. K.

LO Japan

SO Jpn. Kokai Tokkyo Koho, 11 pp.

PI JP 04187637 A2 6 Jul 1992 Heisei

AI JP 90-319576 21 Nov 1990

IC ICM A61K031-557

SC 63 (Pharmaceuticals)

DT P

CO JKXXAF

PY 1992

LA Japan

AB 15-ketoprostaglandins such as 13,14-dihydro-15-keto-16,16-difluoroprostaglandin E2 (I) are memory improver. I (1-100 .mu.g/kg) administered s.c. to exptl. mice improved the memory as refluxed by the passive avoidance learning behavior. Formulations and prepn. of 15-ketoprostaglandins are presented.

IT RN LIST MAY NOT BE COMPLETE: 32233-41-3; 69222-61-3; 118408-95-0;

118565-93-8; 118583-12-3; 118583-13-4; 118583-21-4; 127545-41-9;
136790-72-2; 136790-73-3; 136790-74-4; 136790-75-5; 136790-76-6;
136790-84-6; 136790-89-1